

Title (en)

LITHIUM SECONDARY BATTERY OF IMPROVED HIGH-TEMPERATURE CYCLE LIFE CHARACTERISTICS

Title (de)

LITHIUM-SEKUNDÄRBATTERIE MIT VERBESSERTEN HOCHTEMPERATUR-ZYKLUSLEBENSDAUEREIGENSCHAFTEN

Title (fr)

BATTERIE SECONDAIRE AU LITHIUM PRÉSENTANT DE MEILLEURES CARACTÉRISTIQUES DE DURÉE DE VIE À HAUTE TEMPÉRATURE

Publication

EP 2115808 B1 20121212 (EN)

Application

EP 07860689 A 20071227

Priority

- KR 2007006885 W 20071227
- KR 20070012967 A 20070208

Abstract (en)

[origin: WO2008096961A1] Disclosed is a lithium secondary battery comprising a cathode including a lithium-containing transition metal oxide, an anode including a carbon-based material, and a non-aqueous electrolyte with addition of a compound of formula (1). Incorporation of the compound (1) into the electrolyte significantly improves the high-temperature performance and cycle life characteristics of the battery.

IPC 8 full level

H01M 10/0567 (2010.01); **H01M 4/58** (2010.01); **H01M 4/587** (2010.01); **H01M 10/0525** (2010.01); **H01M 10/36** (2010.01)

CPC (source: EP KR US)

H01M 4/587 (2013.01 - EP US); **H01M 10/052** (2013.01 - KR); **H01M 10/0525** (2013.01 - EP US); **H01M 10/0567** (2013.01 - EP KR US); **H01M 2300/0025** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

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